

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(Currently amended)** A multi-functional electronic communication and medical diagnostic device, comprising:

a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate and display quantified vibration for use in a medical diagnosis ~~in response to a signal generated by the device.~~

2. **(Canceled)**

3. **(Canceled)**

4. **(Previously presented)** The device of claim 1, wherein the device functions as a probe for detecting neuropathy in a subject.

5. **(Previously presented)** The device of claim 1, wherein the component generates vibration of a fixed magnitude.

6. **(Previously presented)** The device of claim 1, wherein the component generates a plurality of sets of vibration each of a fixed magnitude.

7. **(Previously presented)** The device of claim 1, wherein the component generates vibration of a variable magnitude.

8. **(Previously presented)** The device of claim 7, wherein the magnitude is variable in a linear, curvilinear, or step-like manner.

9. **(Previously presented)** The device of claim 1, wherein the component generates vibration at a fixed frequency.

10. **(Previously presented)** The device of claim 1, wherein the component generates a plurality of sets of vibration each at a fixed frequency.

11. **(Previously presented)** The device of claim 1, wherein the component generates vibration at a variable frequency.

12. **(Currently amended)** The device of claim 4, wherein the probe can be used to determine one or more of a vibration perception threshold, a vibration disappearance threshold, and/or a vibration threshold, the device further comprising an audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold in a subject to detect neuropathy.

13. **(Currently amended)** The device of claim 12, further comprising at least one component for storing and/or processing data including audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.

14. **(Currently amended)** A multi-functional electronic communication and medical diagnostic device, comprising:

a component for generating vibration in first and second modes, the component being adapted to generate and display quantified vibration in the second mode; and

a selector for selecting one or the other of said first and second modes for utilizing in an electronic communication and the other of said first and second modes for utilizing in a medical diagnosis;

wherein in the first mode one of said first and second modes the device functions as a portable electronic device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic device operative to transmit and/or receive data and/or voice signals; and

wherein in the second mode other of said first and second modes, the device operates as a probe for detecting neuropathy in a subject.

15. **(Canceled)**

16. **(Canceled)**

17. **(Currently amended)** The device of claim 14, wherein said device in said second mode other of said first and second modes generates vibration of a fixed magnitude.

18. **(Currently amended)** The device of claim 17, wherein said device in said second mode other of said first and second modes generates a plurality of sets of vibrations each of a fixed magnitude.

19. **(Currently amended)** The device of claim 14, wherein said device in said second mode other of said first and second modes-generates vibration of a variable magnitude.

20. **(Previously presented)** The device of claim 19, wherein the magnitude varies in a linear, curvilinear, or step-like manner.

21. **(Currently amended)** The device of claim 14, wherein said device in said second mode other of said first and second modes-generates vibration at a fixed frequency.

22. **(Currently amended)** The device of claim 14, wherein said device in said second mode other of said first and second modes-generates a plurality of sets of vibration each at a fixed frequency.

23. **(Currently amended)** The device of claim 14, wherein said device in said second mode other of said first and second modes-generates vibration at a variable frequency.

24. **(Currently amended)** The device of claim 14, wherein the probe can be used to determine one or more of a vibration perception threshold, a vibration disappearance threshold, and/or a vibration threshold, the device further comprising audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold in a subject to detect neuropathy.

25. **(Currently amended)** The device of claim 24[[14]], further comprising at least one component for storing and/or processing data including : a) audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.

26. **(Currently amended)** An electronic communication device for detecting neuropathy in a subject, comprising:

a component for generating and displaying quantified vibration of a fixed or variable magnitude for use as part of a medical test of nerve function;

wherein when the device is applied to a subject, threshold for the perception or disappearance of vibration can be determined as a measure of nerve function to detect neuropathy; and

wherein the device further functions as a portable electronic device comprising one or more of a pager, beeper, ~~or and~~ cellular phone, ~~and other portable electronic device operative to transmit and/or receive data and/or voice signals.~~

27. **(Canceled)**

28. **(Currently amended)** A medical diagnosis method, comprising:
providing a multi-functional electronic communication and medical diagnostic device , the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, ~~and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals,~~ the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;
selecting a mode of vibration to be used in medical diagnosis;
generating vibration;
applying the device to a subject; and
diagnosing a medical condition based on detection or non-detection of vibration by the subject.

29. **(Canceled)**

30. **(Original)** The method of claim 28, further comprising: determining a threshold for the subject's ability to detect vibration by generating a predetermined magnitude or frequency.

31. **(Original)** The method of claim 30, wherein: the threshold is graded low if the subject detects vibration, and high if the subject cannot detect vibration.

32. **(Original)** The method of claim 28, further comprising: determining a vibration perception threshold for the subject's ability to detect vibration by increasing the magnitude or frequency of vibration.

33. **(Original)** The method of claim 32, wherein: the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.

34. **(Original)** The method of claim 28, further comprising: determining a vibration disappearance threshold for the subject's ability to no longer detect vibration by decreasing the magnitude or frequency of vibration.

35. **(Original)** The method of claim 34, wherein: the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.

36. **(Original)** The method of claim 28, wherein: the medical condition comprises neuropathy.

37. **(Original)** The method of claim 36, wherein: the step b) comprises generating vibration of a predetermined magnitude or frequency equal to about 95th-97th percentiles in a normal population.

38. **(Original)** The method of claim 37, wherein: detection of vibration by the subject indicates an absence of neuropathy, and non-detection indicates a presence of neuropathy.

39. **(Original)** The method of claim 30, wherein: the magnitude or frequency is fixed.

40. **(Original)** The method of claim 30, wherein: the magnitude or frequency is variable in a linear, curvilinear, or step-like manner.

41. **(Previously presented)** The method of claim 36, wherein: the device is applied to an extremity of the subject.

42. **(Currently amended)** A method of detecting neuropathy in a subject, comprising:

providing a multi-functional electronic communication and medical diagnostic device , the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration to be used in detecting neuropathy;

generating vibration of a predetermined magnitude or frequency as a threshold stimulus and applying the device to a subject; and

allowing the subject to indicate whether or not vibration can be detected;
wherein the absence or presence of neuropathy is indicated by the subject's ability to detect or not detect the vibration.

43. (Canceled)

44. (Original) The method of claim 42, wherein: the threshold stimulus is equal to about 95th – 97th percentiles in a normal population.

45. (Currently amended) The method of claim 42, wherein: the step of generating vibration b) comprises generating vibration of a fixed magnitude or frequency.

46. (Currently amended) The method of claim 42, wherein: the step of generating vibration b) comprises generating vibration of a variable magnitude or frequency.

47. (Original) The method of claim 46, further comprising: determining a vibration perception threshold for the subject's ability to detect vibration by increasing the magnitude or frequency of vibration.

48. (Original) The method of claim 47, wherein: the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.

49. (Original) The method of claim 46, further comprising: determining a vibration disappearance threshold for the subject's ability to no longer detect vibration by decreasing the magnitude or frequency of vibration.

50. (Original) The method of claim 49, wherein: the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.

51. (Currently amended) A medical diagnosis method, comprising:
providing a multi-functional electronic communication and medical diagnostic device , the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to

generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration for use in medical diagnosis;
applying the device to a subject and generating vibration; and
diagnosing a medical condition based on detection or non-detection of vibration by the subject.

52. (Cancelled)

53. (Currently amended) A method of detecting neuropathy in a subject, comprising:

providing a multi-functional electronic communication and medical diagnostic device , the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, beeper, and ~~other portable electronic communication device operative to transmit and/or receive data and/or voice signals~~, the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration for use in detecting neuropathy;

applying the device to a subject and generating vibration of a predetermined magnitude or frequency as a threshold stimulus; and

allowing the subject to indicate whether or not vibration can be detected;

wherein the absence or presence of neuropathy is indicated by the subject's ability to detect or not detect the vibration.

54. (Cancelled)